

Claims

1. A mobile telephone terminal arranged to provide a user with a selectable option during a telephone call with a first party, the selection of which initiates communication with the first party by instant messaging.
2. A mobile telephone as claimed in claim 1, wherein the terminal automatically initiates communication with the first party by instant messaging after user selection of the provided option without further user intervention.
3. A mobile telephone terminal as claimed in claim 1 or 2, wherein the user selectable option is one of many user selectable options that are provided as a menu during a telephone call at the instigation of the user.
4. A mobile telephone as claimed in claim 3 wherein the instigation involves a single key-stroke during the telephone call.
5. A mobile telephone as claimed in claim 1 or 2, wherein the user selectable option is selected by a single keystroke during the telephone call.
6. A mobile telephone terminal as claimed in any preceding claim arranged to automatically log on to an instant messaging server.
7. A mobile telephone terminal as claimed in any preceding claim, wherein if the terminal stores the first party's instant messaging address it initiates communication by sending an instant message to the first party.
8. A mobile telephone terminal as claimed in any preceding claim, wherein if the terminal does not store the first party's instant messaging address it initiates communication by sending the user's instant messaging address to the first party.
9. A mobile telephone terminal as claimed in any preceding claim arranged to obtain automatically an instant messaging address from a received text message:
10. A mobile telephone terminal as claimed in any preceding claim comprising a memory for storing a database in which the instant messaging address of the first party and a telephone number of the first party are associated together.

11. A mobile telephone terminal as claimed in claim 10 arranged to search the database for an instant messaging address using an associated telephone number.
- 5 12. A mobile telephone terminal as claimed in any preceding claim comprising:
option means for controlling a display to display a user selectable option or options;
selection means for enabling a user to select a displayed option;
an instant messaging client arranged to initiate instant messaging; and
control means responsive to the selection means when the selected option indicates the
10 initiation of instant messaging to enable the instant messaging client.
13. A method of changing the mechanism by which a first party and a second party communicate during a communication session comprising the steps of:
communicating via a telephone call between the first and second parties; and
15 displaying a user selectable option during the telephone call to at least one of the parties, the selection of which initiates the establishment of instant messaging between the parties.
14. A system for providing communication between a first party and a second party using a telephone call and instant messaging, arranged to
20 switch a communication session between the parties from a telephone call to instant messaging.
15. A mobile telephone terminal arranged to provide a user with a selectable option while instant messaging with a first party, the selection of which initiates a telephone call
25 with the first party.
16. A mobile telephone as claimed in claim 15, wherein the terminal automatically initiates a telephone call with the first party after user selection of the provided option without further user intervention.
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17. A mobile telephone terminal as claimed in claim 15 or 16, wherein the user selectable option is one of many user selectable options that are provided as a menu, while instant messaging, at the instigation of the user.
- 35 18. A mobile telephone as claimed in claim 17 wherein the instigation involves a single key-stroke while instant messaging.

19. A mobile telephone as claimed in claim 15 or 16, wherein the user selectable option is selected by a single keystroke while instant messaging.
20. A mobile telephone terminal as claimed in any one of claims 15 to 19, wherein if
5 the terminal stores the first party's telephone number it initiates communication by placing a telephone call to the first party.
21. A mobile telephone terminal as claimed in any one of claims 15 to 20, wherein if
10 the terminal does not store the first party's telephone number it initiates communication by sending an instant message to the other party providing the user's telephone number or requesting the first party's telephone number.
22. A mobile telephone terminal as claimed in any one of claims 15 to 21, wherein if
15 the terminal does not store the first party's telephone number it initiates communication by requesting a presence attribute for the first party.
23. A mobile telephone terminal as claimed in any one of claims 15 to 22 arranged to obtain automatically a telephone number from a received instant message.
- 20 24. A mobile telephone terminal as claimed in any one of claims 15 to 24 comprising a memory for storing a database in which the instant messaging address of the first party and a telephone number of the first party are associated together.
- 25 25. A mobile telephone terminal as claimed in claim 24 arranged to search the database for a telephone number using an associated instant messaging address.
26. A mobile telephone terminal as claimed in any one of claims 15 to 25 comprising:
option means for controlling a display to display a user selectable option or options;
selection means for enabling a user to select a displayed option;
30 a cellular radio transceiver arranged to initiate a telephone call; and
control means responsive to the selection means when the selected option indicates the initiation of a telephone call to initiate a telephone call using the cellular radio transceiver.
27. A method of changing the mechanism by which a first party and a second party
35 communicate during a communication session comprising the steps of:
communicating via instant messaging between the first and second parties; and

displaying a user selectable option during the instant messaging to at least one of the parties, the selection of which initiates the establishment of a telephone call between the parties.

5 28. A system for providing communication between a first party and a second party using a telephone call and instant messaging, arranged to switch a communication session between the parties from instant messaging to a telephone call.

10 29. A mobile telephone terminal comprising at least one mobile telephone application, wherein the mobile telephone application is arranged to display to a user a presence attribute indicator for a first party with an entry associated with the telephone number of the first party.

15 30. A mobile telephone terminal as claimed in claim 29, wherein the presence attribute indicator indicates any one or more of:

- a) the availability of the first party for instant messaging;
- b) the availability of the first party for a telephone call and/or text messaging;
- c) a preferred method of contact for the first party; and
- 20 d) the amount of distraction the first party will accept.

31. A mobile telephone terminal as claimed in claim 30, wherein the presence attribute indicator indicates one or more of the following presence attributes: 'online status'; 'registration'; 'preferred contact'; and 'user availability'.

25 32. A mobile terminal as claimed in claim 29, 30 or 31 arranged to update automatically the displayed presence attribute indicator for a first party.

33. A mobile terminal as claimed in claim 29, 30, 31 or 32, comprising:
30 an instant messaging client arranged to subscribe, at a server, to presence attributes for a plurality of parties and arranged to receive from the server presence attribute information for each of the parties; and
processing means arranged to process the received presence attribute information and display, for each of the parties, a presence indicator with the entry in the mobile telephone
35 application associated with the party.

34. A mobile terminal as claimed in any one of claims claim 29 to 32, comprising:

an instant messaging client arranged to get presence attribute information for a party from a server; and
a display for displaying a presence indicator with the entry in the mobile telephone application associated with the party.

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35. A mobile telephone terminal as claimed in any one of claims 29 to 34 comprising a memory for storing a database in which the instant messaging address of the first party and a telephone number of the first party are associated together.

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36. A mobile telephone terminal as claimed in claim 35 arranged to search the database for an instant messaging address using an associated telephone number.

37. A mobile telephone terminal as claimed in claim 35 or 36, arranged to search the database for a telephone number using an associated instant messaging address.

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38. A mobile telephone terminal as claimed in any one of claims 29 to 37, wherein the mobile telephone comprises a cellular radio transceiver for transmitting and receiving in a cellular radio telecommunications network using predetermined communication mechanisms specified for that network and wherein the mobile telephone application is an application relating to transmission and/or reception of information using one or more of the specified communication mechanisms.

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39. A mobile telephone terminal as claimed in any one of claims 29 to 38, wherein the mobile telephone application is a phonebook arranged to display multiple entries, each of which has an associated telephone number arranged to display a presence attribute indicator for a first party with the phonebook entry for the first party.

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40. A mobile telephone terminal as claimed in any one of claims 29 to 39, wherein the mobile telephone application is a call register arranged to display multiple entries, each of which has an associated telephone number and arranged to display a presence attribute indicator for a first party with the call register entry for the first party.

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41. A mobile telephone terminal as claimed in claim 40, wherein the call register displays a first set of multiple entries for missed calls and/or a second set of multiple entries for received calls and/or a second set of multiple entries for calls made.

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42. A mobile telephone terminal as claimed in any one of claims 29 to 38, wherein the mobile telephone application is a text message register arranged to display multiple entries, each of which has an associated telephone number and arranged to display a presence attribute indicator for a first party with the call register entry for the first party.
- 5 43. A mobile telephone terminal as claimed in claim 42, wherein the text message register displays a first set of multiple entries for received text messages and/or a second set of multiple entries for text messages sent.
- 10 44. A mobile telephone terminal as claimed in any one of claims 29 to 43, wherein the mobile telephone application is arranged to provide a user, while displaying an entry associated with a first party, a selectable option for initiating instant messaging with the first party.
- 15 45. A mobile telephone terminal as claimed in claim 44, wherein the displayable entry is associated with the telephone number of the first party.
46. A mobile telephone as claimed in claim 44 or 45, wherein the terminal automatically initiates communication with the first party by instant messaging after user selection of the
- 20 provided option without further user intervention.
47. A mobile telephone terminal as claimed in claim 44, 45 or 46, wherein the user selectable option is one of many user selectable options that are provided as a menu during a telephone call at the instigation of the user.
- 25 48. A mobile telephone as claimed in claim 47, wherein the instigation involves a single key-stroke during the telephone call.
49. A mobile telephone as claimed in claim 44, 45 or 46, wherein the user selectable
- 30 option is selected by a single keystroke during the telephone call.
50. A mobile telephone terminal as claimed in any one of claims 29 to 49 arranged to automatically log on to an instant messaging server.
- 35 51. A mobile telephone terminal as claimed in claim 44, wherein if the terminal stores the first party's instant messaging address it initiates instant messaging by sending an instant message to the first party.

52. A mobile telephone terminal as claimed in claim 44, wherein if the terminal does not store the first party's instant messaging address it initiates instant messaging by sending the user's instant messaging address to the first party.

53. A mobile telephone terminal as claimed in any one of claims 29 to 52 arranged to obtain automatically an instant messaging address from a received text message.

54. A mobile telephone terminal as claimed in claim 44 comprising:

option means for controlling a display to display a user selectable option or options;
selection means for enabling a user to select a displayed option;
an instant messaging client arranged to initiate instant messaging; and
control means responsive to the selection means when the selected option indicates the initiation of instant messaging to enable the instant messaging client.

55. A method of controlling the user interface appearance of a mobile telephone terminal comprising the step of:

selecting an entry or entries of a mobile telephone application for which a presence attribute indicator will be obtained and displayed

56. A method of controlling the user interface appearance of a mobile telephone terminal comprising the step of:

obtaining and displaying presence attribute indicators for entries of a mobile telephone application.

57. A system comprising a server storing presence attribute information for a plurality of parties and a mobile telephone terminal

wherein the mobile telephone terminal comprises at least one application, from which a telephone call can be made to a party, arranged to display to a user a presence attribute indicator for the first party in dependence upon presence attribute information received from the server.

58. A mobile telephone terminal comprising at least one mobile telephone application, wherein the mobile telephone application is arranged to display an entry associated with a first party and to provide to a user, while displaying the entry, a selectable option for initiating instant messaging with the first party.

59. A mobile telephone as claimed in claim 58, wherein the terminal automatically initiates communication with the first party after user selection of the provided option without further user intervention.
- 5 60. A mobile telephone terminal as claimed in claim 58 or 59, wherein the user selectable option is one of many user selectable options that are provided as a menu at the instigation of the user.
61. A mobile telephone as claimed in claim 60, wherein the instigation involves a single
10 key-stroke during the telephone call.
62. A mobile telephone as claimed in claim 59 or 60, wherein the user selectable option is selected by a single keystroke during the telephone call.
- 15 63. A mobile telephone terminal as claimed in any one of claims 58 to 62, arranged to automatically log on to an instant messaging server.
64. A mobile telephone terminal as claimed in any one of claims 58 to 63, comprising a memory for storing a database in which the instant messaging address of the first party
20 and a telephone number of the first party are associated together.
65. A mobile telephone terminal as claimed in claim 64, arranged to search the database for an instant messaging address using an associated telephone number.
- 25 66. A mobile telephone terminal as claimed in any one of claims 58 to 65, wherein the displayable entry is associated with the telephone number of the first party:
67. A mobile telephone terminal as claimed any one of claims 58 to 66, wherein the mobile telephone comprises a cellular radio transceiver for transmitting and receiving in a
30 cellular radio communications network using predetermined communication mechanisms specified for that network and the mobile telephone application is an application relating to transmission and/or reception of information using one or more of the specified communication mechanisms.
- 35 68. A mobile telephone terminal as claimed in any one of claims 58 to 67, wherein the mobile telephone application is a phonebook arranged to display multiple entries, each of

which has an associated telephone number and enables the initiation of a telephone call to the associated telephone number.

69. A mobile telephone terminal as claimed in any one of claims 58 to 68 wherein the mobile telephone application is a call register arranged to display multiple entries, each of which has an associated telephone number and enables the initiation of a telephone call to the associated telephone number.

70. A mobile telephone terminal as claimed in claim 69, wherein the call register displays a first set of multiple entries for missed calls and/or a second set of multiple entries for received calls and/or a second set of multiple entries for calls made.

71. A mobile telephone terminal as claimed in any one of claims 58 to 70, wherein the mobile telephone application is a text message register arranged to display multiple entries, each of which has an associated telephone number and enables the initiation of a text message communication to the associated telephone number.

72. A mobile telephone terminal as claimed in claim 71, wherein the text message register displays a first set of multiple entries for received text messages and/or a second set of multiple entries for text messages sent.

73. A mobile telephone terminal as claimed in any one of claims 58 to 72, wherein if the terminal stores the first party's instant messaging address it initiates instant messaging by sending an instant message to the first party.

74. A mobile telephone terminal as claimed in any one of claims 58 to 73, wherein if the terminal does not store the first party's instant messaging address it initiates instant messaging by sending the user's instant messaging address to the first party.

75. A mobile telephone terminal as claimed in any one of claims 58 to 74, arranged to obtain automatically an instant messaging address from a received text message.

76. A mobile telephone terminal as claimed in any one of claims 58 to 75, comprising:
option means for controlling a display to display a user selectable option or options;
selection means for enabling a user to select a displayed option;
an instant messaging client arranged to initiate instant messaging; and

control means responsive to the selection means when the selected option indicates the initiation of instant messaging to enable the instant messaging client.

5 77. A method of communicating with a first party from a mobile telephone application, comprising the steps of:

displaying an entry associated with a first party in a mobile telephone application; and displaying a user selectable option for initiating instant messaging with the first party within the mobile telephone application.

10 78. A mobile telephone terminal arranged to display an entry associated with a first party and provide a customised menu of selectable options for initiating communication with the first party, wherein the selectable options displayed are dependent upon received presence attribute information for the first party.

15 79. A mobile telephone as claimed in claim 78, wherein the selectable options for communication include placing a telephone call and instant messaging

80. A mobile telephone as claimed in claim 79 wherein the displayed selectable options may include placing a telephone call, but not instant messaging

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81. A mobile telephone as claimed in claim 79 or 80, wherein the displayed selectable options may include instant messaging but not placing a telephone call

25 82. A mobile telephone as claimed in any one of claims 78 to 81, wherein the selectable options displayed are dependent upon presence attribute information indicating the availability of the first party for instant messaging.

30 83. A mobile telephone as claimed in any one of claims 78 to 82, wherein the selectable options displayed are dependent upon presence attribute information indicating the availability of the first party for a telephone call.

84. A mobile telephone as claimed in any one of claims 78 to 83, wherein the selectable options displayed are dependent upon presence attribute information indicating the preferred method of contact for the first party

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85. A mobile telephone as claimed in any one of claims 78 to 84, wherein the selectable options displayed are dependent upon presence attribute information indicating the amount of distraction the first party will accept.

5 86. A mobile terminal as claimed in claim in any one of claims 78 to 85, arranged for automatic updating of presence attribute information for a first party.

87. A mobile terminal as claimed in any one of claims 78 to 86, comprising:
an instant messaging client arranged to subscribe, at a server, to presence attributes for a
10 plurality of parties and arranged to receive from the server presence attribute information for each of the parties; and
processing means arranged to process the received presence attribute information and create, for each party, a customised menu of selectable options for initiating communication.

15 88. A mobile terminal as claimed in any one of claims 78 to 87, comprising:
an instant messaging client arranged to get presence attribute information for a party from a server; and
processing means arranged to process the received presence information and create a
20 customised menu of selectable options for initiating communication with the party.

89. A mobile telephone as claimed in any one of claims 78 to 88, wherein the terminal automatically initiates communication with the first party after user selection of the provided option without further user intervention.

25 90. A mobile telephone terminal as claimed in claim 78 or 79, wherein the customised menu is provided at the instigation of the user.

91. A mobile telephone as claimed in claim 90, wherein the instigation involves a single
30 key-stroke.

92. A mobile telephone terminal as claimed in any one of claims 78 to 91, arranged to automatically log on to an instant messaging server.

35 93. A mobile telephone terminal as claimed in any one of claims 78 to 92, wherein the displayable entry is associated with the telephone number of the first party.

94. A mobile telephone terminal as claimed in any one of claims 78 to 93 comprising at least one mobile telephone application for placing a telephone call, wherein the mobile telephone application is arranged to display the entry associated with the first party.
- 5 95. A mobile telephone terminal as claimed in claim 94, wherein the mobile telephone application is a phonebook or a call register or a text message register.
96. A method of providing an intelligent choice of communication options to a user of a mobile telephone terminal comprising the steps of:
- 10 receiving presence attribute information for a first party; and
adapting the options, for initiating communication with the first party, displayed in to a user in dependence upon the received presence attribute information.
97. A terminal comprising:
- 15 an instant messaging client for participating in an instant messaging dialogue with one or more parties; and
a calendar application, for recording appointments, arranged to store the content of an instant messaging dialogue in an appointment record.
- 20 98. A terminal as claimed in claim 97 wherein the calendar application is arranged to initiate instant messaging and the recording of the instant messaging dialogue.
99. A terminal as claimed in claim 97 or 98, wherein an appointment record is user programmable to provide a reminder to a user at a user determined time.
- 25 100. A terminal as claimed in any one of claims 97 to 99, wherein the calendar application allows a user to indicate that a future appointment involves an instant messaging dialogue with identified parties.
- 30 101. A terminal as claimed in any one of claims 97 to 100, wherein the calendar application is arranged to automatically enable the log-on of the terminal to an instant messaging server.
- 35 102. A terminal as claimed in any one of claims 97 to 101, wherein the calendar application is arranged to display an appointment record and to provide to a user, while displaying the appointment record, a selectable option for initiating instant messaging with one or more parties identified in the appointment record.

103. A terminal as claimed in any one of claims 97 to 102, wherein the calendar application is arranged for automatic initiation of instant messaging at a user determined time.

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104. A terminal as claimed in any one of claims 97 to 103, wherein the calendar application is arranged for automatic initiation of instant messaging with parties identified in the appointment record.

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105. A terminal as claimed in any one of claims 97 to 104, wherein the calendar application is arranged to process presence attribute information for parties identified in an appointment record.

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106. A terminal as claimed in any one of claims 97 to 105, wherein the calendar application is arranged to display a presence attribute indicator for a first party identified in a calendar appointment involving an instant messaging dialogue with the first party.

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107. A terminal as claimed in any one of claims 97 to 106, comprising a memory for storing a database in which the instant messaging address of a first party and a telephone number of the first party are associated together.

108. A terminal as claimed in claim 107 arranged to search the database for an instant messaging address.

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109. A method of recording a remote meeting comprising the steps of:
creating an appointment record for the remote meeting in a calendar application ;
initiating an instant messaging dialogue from within the appointment record ;
storing the content of an instant messaging dialogue; and
associating the stored instant messaging dialogue with the appointment record.

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110. A mobile telephone terminal comprising: at least one application from which a telephone call and instant messaging can be initiated, wherein when the application accesses a stored telephone number of a party the stored instant messaging address of that party is automatically accessed or accessible and when the application accesses a stored instant messaging address of a party, the stored telephone number of that party is automatically accessed or accessible.

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111. A mobile telephone terminal as claimed in claim 110, comprising:
a memory for storing a database in which an instant messaging address and a telephone
number of a party are associated, wherein when the application accesses a telephone
number of a party stored in the database, the associated instant messaging address is
5 automatically accessed or accessible from the database and when the application
accesses the instant messaging address of a party stored in the database, the associated
telephone number of the party is automatically accessed or accessible from the database.
112. A mobile telephone terminal as claimed in claim 111 comprising a memory for
10 storing a database in which the instant messaging address of the first party and a
telephone number of the first party are associated together.
113. A mobile telephone terminal as claimed in claim 112, arranged to search the
15 database for an instant messaging address using an associated telephone number.
114. A mobile telephone terminal as claimed in claim 112 or 113, arranged to search the
database for a telephone number using an associated instant messaging address.
115. A mobile terminal substantially as hereinbefore described with reference to and/or
20 as shown in the accompanying drawings.
116. Any novel subject matter or combination including novel subject matter disclosed,
whether or not within the scope of or relating to the same invention as the preceding
claims.

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